CHINESE GOVERNMENT RAILWAYS

PEKING-MUKDEN LINE.

Report for the Year ended 30th June, 1914,

Published for circulation by order of the Directors.

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CHINESE GOVERNMENT RAILWAYS

PEKING-MUKDEN LINE
ADMINISTRATION BUILDING, TIENTSIN

CHINESE GOVERNMENT RAILWAYS

PEKING-MUKDEN LINE.

General Report

For the Year ending 30th June, 1914.

The Directors submit the following report of the main features of the working of the railway during the 12 months ending 30th June, 1914. The previous report only covered a period of 6 months to 30th June, 1913. The following summary has been compiled to show the results of 12 months working in each case.

Earnings.					
Working Expense	S				
Balance after pay	ing	Wor	king	Expen	ses
Ratio of Working	Ex	pens	es to	Earnin	ngs

For 12 months	ending 30th June
1913	1914
\$ 14,907,232.87 3,925,450.56	\$ 13,841,991.91 5,024,049.04
10,981,782.31	8,817,942.87
27%	36%

Mileage.—The mileage open to traffic is 605.76 miles.

Loans.—On 1st August, 1913 the Ninth Drawing of the Chinese Government Railways 5% Gold Loan of 1899 amounting to £57,500 was paid off thus reducing the amount outstanding to £1,782,500.

The Gold Loan from the South Manchuria Railway has also been reduced according to schedule.

Exchange—The Loan service obligations due in London were met by monthly remittances during the year at an average rate of exchange of 2/9 \% per Tientsin Tael.

Li Tsoi-Chee

Managing Director.

Chu Kin-How

Associate Director.

CHINESE GOVERNMENT RAILWAYS,

PEKING-MUKDEN LINE.

STATEMENT OF ACCOUNTS

FOR THE YEAR ENDED 30th JUNE, 1914.

No. 1

Capital Authorised and Created

DETAILS	C	apital Authori	sed		Capital Create	d		Balance	
	Stock and Shares	Loans	Total	Stock and Shares	Loans	Total	Stock and Shares	Loans	Total
Chinese Government and)	\$	\$	\$	\$	\$	\$	\$	\$	\$
Chinese Shareholders.	21,994,428.57	-	21,994,428,57	21,994,428.57	-	21,994,128.57			
Under Loan Agreement 1899, £ 2,300,000 Under Japanese Loan Agreements, South Man-		27,600,000.co	27,600,000.00	-	27,600,000.00	27,600,000,00			
churia Rly. Loan, 1909. Gold Yen 320,000,	_	377,142.86	377,142.86		377,142.86	377,142.86			
\$	21,994,428.57	27,977,142.86	49,971,571.43	21,994,428.57	27,977,142.86	49,971,571.43			

No. 2

Stock and Share Capital Created Showing Proportion Issued.

	Amount Created	Amount Issued	Amount Unissued
Chinese Government and Chinese Shareholders	\$ 21,994,428.57	\$ 21,994,428 57	\$
\$	21,994,428.57	21,994,428.57	

No. 3

Capital Raised by Debenture Stock.

Existing at 30th June, 191						£ 1,840,000	22,080,0
Bonds of Ninth Drawing	paid off		,			57,500	690,0
Existing at 30th June, 191	1 .					£ 1,782,500	21,390,0

No. 4

Receipts and Expenditure on Capital Account.

Dr.

Cr

					1		1
	Total to 30th June 1913	During Year to 30th June 1914	Total to 30th June 1914		Total to 30th June 1913	During Year to 30th June 1914	Total to 30th June 1914
To Expenditure	\$	\$	\$	By Receipts	\$	\$	\$
Lines open for Traffic	49,635.095.65		49,635,095.65	Shares			21,994,428.57
Steamer.	336,475.78	-	336,475.78	South Manchuria Rly. Loan			27,600,000.0 377,142.8
\$	49,971,571.43	-	49,971,571.43				
Balance			Nil				
		\$	49,971,571.43			\$	49,971,571.43

Nil

No. 6

Expenditure on Capital Works paid for from Revenue.

Additions to Mukden Extens	sions									70.450.57
Rolling Stock										79,459.57
Tongshan Works										1,182,594.09
I assemble Chale										17,504.50
Loco. Water Towers etc.										38,203.16
Bridge Works										7,463.72
New Stations										30,209.32
										71,088.16
Fencing Stations .										9,889.01
Baggage Rooms ,										5,861.15
Sidings										26,575,77
Land							,			32,026.74
Additions to other Buildings										25,597.10
Staff Quarters										22,345.93
Miscellaneous										23,828.35
	E	vnondod	during	, oueron	+ ****				-	
		xpended								1,701,261.63
	E	xpended	in pre	vious y	ears		×			9,764,590.10

No. 7

Dr.

Revenue Account

To Maintenance of Way, Works and Stations as per Abstract A	1,154,739.52	By Earnings: Passenger Service	5,808,217.35
Expenses as per Abstract B.	2,390,960.96	Goods Service	
" Traffic Expenses as per Abstract D. " General Charges " " E.	855,553.64 5,024,049.04	Chinese Government Traffic	269,072.98
" Balance carried to Net Revenue Accou	nt 8,817,942.87	Railway Service	302,009.06
	\$ 13,841,991.91	\$	13,841,991.91

No. 8

Net Revenue Account Dr. To Debenture Loan, Ninth instalment repaid . . 690,000.00 By Balance forward from last year.. . 6,217,609.48 918,617.37 ,, Balance transferred from Revenue Account . . . 8,817,942.87 8,150.60 " S.M.R. Loan, part capital repaid 18,523.80 13,193.25 "Shipping Department. 27,828.71 75,600.00 "Bonus to Employees. . 212,703.58 " Betterments, being amount taken from Revenue

General Balance Sheet

Dr.			C
Capital Account, Balance per No. 4. Salaries and Wages due. Sundry Creditors. B.R.A. Balance taken over. Net Revenue A/c, Balance at Credit per No. 8.	261,743.68	count "A"	285,663 542,033 2,521,104 250,117
\$	10,113,496.69	\$	10,113,496.8

Wm. Henderson, c.a.,

Chief Accounted

ABSTRACTS.

A. Maintenance of Way, Works and Stations.

Year o	ending ie, 1913		ending ine, 1914
	172,594.09	Salaries, Office Expenses and General Superintendence Maintenance and Renewal of Permanent Way:—	193,036,11
334,086.20 349,087.74	683,173.94		680,519.79
		Repairs of Bridges.	
11,422.55 23,440.99	34,863.54	Wages	28,575.08
	116,991.23 Nil	Repairs of Stations and Buildings.	126,061.28
\$	1,007,622.80	Service Freight	126,547.26
		\$	1,154,739.52

B. & C. Locomotive Power and Rolling Stock Repairs.

30th Jun											ending ne, 1914.
	165,812.19		. Salari	ies, Offic	e Expenses and	General Superi	ntendenc	е .			174,228.48
				1	Running Ex	penses					
169,720.26			. Wag	ges conne	ected with worki	ng Locomotive	Engines			190 111 04	
533,341.81					. Coal		- 6			189,111.34	
58,458.61					. Water					. 573,254.73	
81,185.51	842,706.19			Oil	, Tallow and					76,582.96	
	Ma	aintena	nce and	Rene	ewal of Loco	motives a				90,182.83	929,131.86
336,578.41					. Wages	motives a	na IVI	achir	ery:		
153,364.16	489,942.57									, 316,036.97	
00 401 50			Rep	pairs	and Renew COACHING VE	als of Car	s :			226,697.25	542,734.22
99,481.53	185,801.61				Wages , Materials					. 88,901.60	
94,578.18					GOODS VEHI				*	. 160,733.56	249,635.16
82,673.53	177,251.71				WagesMaterials					90,141.67	
	49,390.88			Clea	ming Carriages					141,355.82	231,497.49
	11,340.11			- Ste	eam Ferry at No	Wchwang					55,341.56
	Nil .				Service Frei						13,745,50
\$ 1,5	922,245.26						,			-	194,646.69
										\$	2,390,960.96

D. Traffic Expenses.

Year er 30th June	, 1913								-	Year e 30th Jun
\$	ş				General Superintendence					110,768.40
103,888.43		-			Wages of Station Staff.	-			-	305,098.90
264,576.11		-	-		Wages of Train Staff .			-	-1	94,451.09
76,091.20			-		Lighting and Small Stores		. ,		-	91,030.39
78,889.92		-	*	*	Wagon Covers, Ropes, etc.				-	Nil
43.29					Station Fittings and Furniture		-			20,323.87
10,346.09		-		-	Service Freight .					1,122.27
Nil	533,835.04									2.21

E. General Charges.

Year en										-	Year endin 30th June, 1	ng 1914.
5 1	S									1	\$	5
251,728.98					General Superin	tendence				-	237,502.79	
72,947,38				-	Accountant's De	partment			-	-	77,996.94	
81,033.06					Stores Departme				-	-	83,105.81	
47,433.03		1			Medical Departn	nent .				-	52,921.63	
4,924.07					Rents of Buildin	igs and	Lands			-	4,241.51	
100,585.93					Police .					-	166,961.80	
165,227.79					Telegraph Depar	tment .				-	179,182.93	
90,338.63					Stationery and I					-	111,229.54	
3,253.63					Compensation				,		5,458.15	
57,593.19					Sundries .					-	57,332.63	
Nil		1			Service Freight						49,535.69	
875,065.69		1			octive treight					-	1,025,469.42	
Cr.413,318.23		1.	_		Interest, &c.						Cr.169,915.78	
	461,747.46									1		855,551

EARNINGS.

Year en							Year en 30th Jun	
ş	\$						ş	
5,632,530.76		-			Passenger Service		5,808,217.35	
3,043,563.05			,		Goods Service		. 7,159,071.06	
494,195.01		-			Miscellaneous Receipts .		303,621.46	
736,944.05		-			Chinese Government Traffic.		269,072,98	
Nil		-			Railway Service	-	392,009.06	
							-	
14	,907,232.8	7						13,8

AUDITOR'S CERTIFICATE

The accounts for the year ended 30th June, 1914, as stated, contain, in my opinion, a full and true statement of the financial condition of the Railway, and the revenue has, in my judgment, been charged with all expenses which ought to be paid thereout. The interest and redemption of the Loans during the year have been fully met.

Tientsin, 28th August, 1914.

A. F. Algie,
Auditor

ENGINEER-IN-CHIEF'S CERTIFICATE.

I hereby certify that the Permanent Way, Bridges, Stations and other Buildings have been maintained in good order during the Year ending 30th June, 1914.

Tientsin, 18th August, 1914.

D. Poyntz Ricketts, Engineer-in-Chief.

LOCOMOTIVE SUPERINTENDENT'S CERTIFICATE.

I hereby certify that the Plant, Locomotives, Coaches, Cars, Wagons, Machinery and Tools have been maintained in good order and repair during the year ending 30th June, 1914.

Tongshan, 20th August, 1914.

F. A. Jamieson,
Loco. & Works Superintendent,

REPORT ON PERMANENT WAY DEPARTMENT

FOR TWELVE MONTHS ENDING 30th JUNE 1914.

	Miles of	f Main Lin	e Track .									605.760	miles
		f Sidings,	permanent			-1	59.493						
		t	emporary .				8.512	Total		-	-	168.005	75
	Increase	of Siding	s, permanent				1.960						
			temporary				2.026	Total	incre	ase		3.980	"
	New sle	epers put	in for mainte	nance									
	(a)	8 ft. Sle	epers .		3			-		-		225,601	
	(b)	Crossing	timbers .			- 8						2,542	
	Rails ch	anged											
			23, 85 lbs		bi	roken	or d	efective	е				
			1. 70 lbs			33	77	27					
			22. New sect	ion 60	lbs	77	22	25					
			15. Old secti	on 60		22	27	"					
			1,444 ft. 0/S	60 lbs	trac	k rela	aid wit	h 85 l	b.				
			3,120 ft. Jap	. 60 lb.	22	22	27	New	sectio	n 60	lb.		
	Fangs of	ballast us	ed for maint	enance								13,113.	
			ed for new										
	Probable r	enewals for	next year.										
	(a)	8 ft. slee	pers .								-	245,000.	
			timbers .										
New brid	ges completed	d:—											
	Brid	lge No. 18	8 (S. C. H.)	extend	ed 3	span	s 10 f	t. each					
			ed for protec									3,935.	
			work, etc., ne										
		7.00	Liu Ho dam			,							
		earthwork											
			work .									19,379.	
			rs									20,407	
	(~)	z or rojam			*	1 2	- 1						
Platforms	extended.							201					
	13 Station	s' platform	as to the ext	ent of			9				f	t. 6,071	
		· ·											

New Bu	ildings erected.						
	W. C. Station building					sa. ft.	1,016
	T. C. S. Tsinpu quarters					-d	1,196
	T. C. S. Post office quarters					.,,	1,740
	T. S. Extension of Station Buildings .					27	4,920
	H. H. Store-yard, Coolies & Police Quarte	ers .			100	17	1,782
	H. K. C. Traffic Quarters						1,140
	T. N. Pattern Shop	10000				22	2,624
	" Extension of Electric Store		-			22	2,392
	" Smith Shop					- 11	4,114
	., Extension of Store						2,473
	" Inspection pit					**	1,057
	" Steel Bogie Shop						4,564
	" Casting Store					11	1,701
	L.A. U.S. A. Barracks						4,917
	T. T. U. New Station					1271	1,468
	H. F. T. do do .					-77	1,468
	U. A. U. do do					22	1,468
	T. H. Waiting Room .					22	1,200
	S. H. K. B. W. Girder Shop extension .					33	3,156
	" Chinese Government Telegraph ()	ffice				22	1,470
	C. C. H. New Loco Quarters	110				31	5,526
	T. I once Quarters .						2,693
						77	
	otation extra paggage room & P. O					22	1,190
	H. K. T Additional Loco. Staff Quarters			 *		77	1,074
	Numerous small buildings to the extent			9	-	77	4,067
			-	 _		22	31,859
				9	Cotal	sq. ft.	91.859
Nimm - 1				-			
Signals er							
	T. T. U. Up and down home and distant						
	H. F. T. ,, ,,				A.*.	27	4
	C. K. C. ,, ,, ,, ,,			*		22	4
			1000			72	4
eavy wor	ks executed.						

Yang-tsun to Chang-chuang. Two miles of bank reformed to slope of 2 to 1 and roughly hand

Tientsin East, New booking-hall, ticket office, baggage room & Customs office added. Totzuto, Houfengtai & Changchiachuang, crossing station put in.

Tang-shan, about 20,000, sq. ft. of new buildings built for the workshops. Hsinminfu. 3,952 ft. of yard wall built as protection against floods.

Foreshore protection.

83 fangs of rubble used at Ying-kow.

Wharfage built.

4 casting iron bollards set in re-inforced concrete and 6 new piles 55 ft. long driven at Ying-

Painting executed for maintenance.

94 bridges

Tanks, turntables, buildings, notice-boards, signals, etc.

Water supply works.

Chien-men. City water laid on to tank in loco, yard.

Feng-tai. New well sunk & 15 ft. tank with crane erected at east end of station.

Chang-chuang. New well put down for domestic supply.

Tientsin. City water laid on to Inspector's quarters, 780 ft. 2" main to waiting room renewed

Lu-tai. Water crane erected at east end & connected to tank by 132 ft. of 8" pipe. Tang-shan. Three bore holes sunk, but unsuccessful. Two wells 6 ft. & 9 ft. dia. respectively

are being sunk and are now down 40 ft. An-shan. A new 20 ft. tank with steam pump has been put in at east end.

Chien-wei. A new 20 ft. tank & 15 ft. dia. well put in.

Ningyuanchow. A new well 12 ft. dia. has been put down.

Lichiawopu. " " 15 ft. " " " " " " " Peichipu. New well put down for domestic supply. Peichipu.

Works in progress.

Re-arrangement of yard & signalling.

Water tank for Kalgan & Kinhan lines.

Water tank and stand pipe. L. G.

Station building.

P. G.

T. C. S. Post Office.

Station building extension.

Extension of Tsin-pu quarters.

Water tank & stand pipe.

Dump siding & filling. T. S.

Goods shed.

Salt siding. H. K.

Water crane.

Weighbridge. Extend smith shop.

T. W. Pressed steel bogie shop.

Store for castings.

Extend East boiler house.

Draftsman's quarters.

Sink wells.

T. N. & K. P. Strengthen bridge 36 Bet.

Lengthening platforms.

L. A.

Extra sidings accommodation.

Car repair sidings & workshop.

	"	Chinese Government Telegraph Office.	
	,,	Loco Inspector's quarters.	
	"	Bridge works Office for Chinese.	
	NY.C.	New water tank &c.	
	,,	New baggage room & alterations to Stn.	buildin
	K. P. T.	Engineer Department quarters.	
	"	Bore holes.	
	,,	Signalling.	
	K. S. T.	Quarry clerk's quarters.	
	,,	Roads, Latrines.	
	C. L. H.	Strengthening Liu Ho dams.	
		Station Master's house.	
	Y. K.	Latrines.	
Accidents	during the	year	
	Employee	s killed 8	Injur
		s 4	Ining

Trespassers ,, 30

S. H. K. Loco Staff quarters repairs.

Rainfall & floods.

On August 4th 1913 the Pei Ho broke its right bank above railway and flooded Tung-chow river station buildings, and put a severe strain on capacity of bridges Nos. 8 & 9 on the Tung-chow Branch. The scour at the latter bridge was very considerable but was checked by rubble. Rainfall outside the wall was abnormally small in 1913.

.

Injured 16

The average for year ending 30-6-14 was

Average number of employees. 4,967.

LOCOMOTIVE DEPARTMENT

Annual Report of work carried out by the Locomotive and Carriage Works.

FROM JULY 1st 1913 TO JUNE 30th 1914.

Locomotives.

								C	LAS	S							
Repairs		1	11	15	23	40	44	47	54	58	74	100	101	107	125	1	Tota
1 m N		2		1		2				1	8		5	4	5		28
General overhaul T. N			2	2				1 3		4	5						13
Repairs K. P. E. Shops	-																8
New fire boxes			-														12
Half sides		-	-														12
Tube plate Fire box	-		-		-		-										14
smoke box				-		-						-	-		-		1
Back plate fire box	,		-		-			-	-		-	-	-			-	9
Sets of Tubes					-		-					-	-		1		25
Smoke box			-		-		-			- 0	1	-	-	-	-	2	10
New boilers completed		1	-	3			-	-		2	4	-	-		-	4	12
New ,, under construction								-	-	7	5	+	-	-	-	-	12
Boilers withdrawn				-	-		-	-	-	-	-	1	1	1	-	-	10
Painted		2		1		2				1	9		2	5	5		27
Improvements												1000					
	3										6						6
Fitted with W. A. Brake							2		1		6						8
" train heating			-				-		1	-		1	1	-	1	1	

Tenders.

		Class		
Description	4 wheel	6 wheel	8 wheel bogie	Total
General overhaul T. N	. 1	12	13	26
Repaired K. P. T. Shops			14	14
Painted		10	17	27

Coaches and Wagons.

General Repairs	Coaches	Wagons	Brake Vans etc.
Tongshan Works	105	989	32
Kao-Pan-Tze Shops	63	921	25

were repaired.

Coaching	Stock	1				45
	Electrical Equipment of Coaches and Vans overhaul	ed	3.1		*	20
	do rewired	,				4
	Painted and Varnished					86
	Brake Van Boilers for train heating in hand .					11
	3rd class coaches rebuilt with standard teak Bodies					3
	3rd class Coaches fitted with kitchen			14		6
Freight	Stock					
	Electrical Equipment of freight wagons overhauled		es:			3
	Painted					930
	Rebuilt					88
	30 Ton H. S. wagons 6'-0" Steel Doors altered to	4' 432"				13
	20 ,, L. S. wagons falling stanchions fitted .				100	20

Conversion

Coaching Stock.

Kitchen car 117 converted to Postal van and renumbered 80

" " 172 " " 30 Ton Covered Goods renumbred 2,854

Freight Stock. 12 Ton Pony Wagon No. 11 converted to 20 ton H. S. & renumbered 1,584 30 Ton Covd. Goods 1,089 , Wrecking car , , 10

Improvements to Rolling Stock.

		Westin	nghouse		Electri	c lighting
	Air Brake	Heating	Brake pipe	Heater pipe	Stones	Direct from dynamo vans
Coaches						
1st	4	14			6	
2nd	5	8			1	
3rd	4	6				4
Compos.	5					
Private car					1	
B. & B. Vans					1	
Freights						
Pony wagons			1			
30-ton Covd. Goods.			10	10		
	18	28	11	10	9	1

CONSTRUCTIONAL WORKS FOR FOREIGN LINES & OTHERS

	New Ro	olling	Sto	CK	αc.	Con	ibiei	eu			
Tao-Ching	Line 30-ton High Side wagons, V Frames of old cars used	Wheels,	Axles	, and	Bogie						90
Kalgan Li	ne.										70
	30-ton High side Wagons										5
	22' Brake Vans Loco Boiler for 19" Mogul	class									1
	Steel fire box 19" "	,,									1
Kirin Line											20
	00-1011 111811					•					4
	22' Brake vans	van									1
siatic Pet	troleum Co. Ltd. 30-ton Oil tank wagons										7
					-						
	New Rolling	Sto	ck &	cc. I	unde	r C	onst	ruct	ion.		
algan Lin	e										50
	30-ton Covered Goods Wago	ns									10
	10-ton Coal Wagons .			-							
irin Line											15
	30-ton High Side Wagons			*				*			30
	" Covered Goods .										5
	" Flat wagons .	*									20
	15-ton High Side wagons Loco boilers for 17" mogul	class									3
andard Oi	I Co. Ltd.										
	30-ton Oil tank wagons										
	New Rolling Stoc	k for	P.	M.	Line	Un	der	Coi	nstr	uctio	n.
aches	First Class										9
	Sleepers .										9
	Buffet						,			*	1
	Second Class .										97
	Third "									*	21
	Brake Vans										10
	23' frame .										2
	42' ,, .									1	.4

Freight	30-ton High Side G 37.	. 500			300		7.4	,		185
Lieidir	" Covered Goods	,				,		,		75
	" Covered Goods	1,000	11,000	1	1.0					7
	Pig Cars		,							3
Locomotive										
	19" Moguls .				,	. "				12
	17" "	. =	Wind of	4 1						1
	17" Shunters 54 class		. 0	Inger 3			1.			2
		10								
Tenders.										
	Eight wheel Bogie.									12
					-					
	The second of th	0 FE X1321	1 1							
	New Rolling Stoc	k fo	or P	. M.	Lin	e C	omp	lete	d.	
0	Timet Olace									
Coaches.	First Class	11	**							4
	Drawing Room Car			10	. 9					1
	Corridor cars .			. 0						1
	Sleeping car.			CEN		-				1
	Kitchen car .				with the				192	5
	Private cars				**		1		grafit s	
	Second Class									
	Day coaches					100	1 201	1 2		5
	Buffet and Kitchen car						we w		10.	1
Ensights										
Freights.	00 . 77' 1 0'7									
	30-ton High Side									~ ~
	,, Low side									
	20-ton High Side (All Steel).									
	20-ton ,, (Timber bodies)									
Miscellane										
	12-ton Oil tank car for Store use									
	Ash trucks (for Works use) .									
	ASH CIUCKS (101 WOIRS USC).									20
Locomotive	S.	LAST .		1						
	Shunters Type 2-6-2 Cylinders 14									3
	,, erected (Imported) Type									
	Freight Type 2-6-0 Cylinders 19"									
	Troight Type 2 o o ojimao.									
Tenders.										
	Eight wheel Bogie tenders:								-	4

NEW MACHINERY ERECTED. Tongshan Central Works.

Machinery Imported.

- 3. Babcock & Wilcox boilers each 983 sq ft. H. S. and feed pump.
- 1. Lancashire Boiler 30' 0" x 7' 0" diameter.
- 1. Set Duplex direct acting pumping engines 16" x 12" Rams 21/4"
- 1. Piston and Valve rod grinding machine to work 6" diam x 5' 3" long.
- 1. Swinging grinding machine for polishing connecting & side rods.
- 2. Sundale Improved water tool grinders.
- 1. Handy Emery band grinder,
- 1. Motor driven boiler scaling tool.
- 1. John's Motor driven Splitting shears to shear 34" plate 16" Punching gap and notching apparatus.
- 1. John's Splitting shears combined with punching machine and bar angle and tee cropper.
- 1. Lever shearing machine Size No. 3.
- 1. Plate edge milling machine.
- 1. Cylinder port milling machine.
- 1. Brass Finishers milling machine,
- 2. H. S. Drilling machines to drill up to 1" diam.
- 6. S. S. Self Acting lathes 61/2 centres.
- 1. Rivet & Bolt Making machine to make up to 1" diam x 6" fitted with engine.
- 1. Friction Feed Cross cut saw bench Type M. T. 5' 0" x 2" 6".
- 1. Multiple Headed H. S. Automatic Bolt Screwing Machine.
- 1. Planing Machine 12'-0" x 4' 6" x 4' 0".
- 3. 30 H. P. motors.
- 1. Alekin Distilling plant, 7 gallon per hour capacity.
- 1. Testing set for Stones Electric light.

Machinery Manufactured at Tongshan Works.

- 1. Turntable for Loco. Works Boiler Shop.
- 3. Turntable for Pressed Steel Bogie shop.
- 1. Set New Levelling Blocks.
- 1. 10 cwt Steam hammer.
- 2. Journal polishing lathes for T. S. & T. K. sheds.
- 1. "Woods" steaming apparatus for arch rails.
- 2. Wall Cranes.

Machinery Manufactured S. H. K. Bridge Works.

1. Standard wash out pump for T. W. main pump house.

New Machinery for sheds.

- 1. Cornish boiler 18' 0" x 5' 0" for C. M.
- 4. Vertical boilers erected in new boiler house C. C. H. shed.
- 1. Combined Electric light set for C. M.
- 1. "Sturvetant" heater fan & piping fitted in M. D. Shed.

Foundry Output.

						1912-13	1913-14
Iron Cas	tings	-				627.2 Tons	1194.2 tons
Brass	77				 -	109.9 ,,	109.5 ,,

Average number of Employees.

Tongshan Works (Exclusive of contractors men 1,092 Approx. average).	İ	07.40	
1,092 Approx. average).	- 1	00	
01	-	2512	2184
Kao-Pan-Tze Shops	-	341	354
Loco Sheds (Running Dept.)	-	1716	1761

Rolling Stock Withdrawn.

		Wrecked on Home Line Wrecked on Foreign Lines				
		Train wreck H. F. T.	Kinhan Railway	T. P. Railway, N. S. Civil War A/C.		
Ton Coal wagons		2				
" High Side		2	1	1		
" Low side.			2			
" High side.		2				
0-ton High side .		3				
ocomotive (16" x 24"	Mogul)	1				

Rolling Stock Equipment at 30th June 1914.

Rolling Stock Equip	No. of	Tonnage	Axles
	Vehicles		
	6	60	12
10-ton 4 wheel Explosive	264	2640	528
Coal cars	20%	70	
Water tank.	-	70	14
Pig Cars	100		14
12-ton Coal cars	466	5592	932
Oil Tank	1	12	2
Pony cars	33	396	132
20-ton Low Side	246	4920	984
Flat Cars	72	1440	288
High Side	871	17420	3484
Covered Goods	96	1920	384
Covered Goods .	154	3696	616
24-ton High Side	16	384	64
Low Side	1	24	4
Flat	163	4890	652
30-ton Covered Goods	3	90	12
Water tanks	49	1470	196
Oil tanks	88	2640	352
Low Side		14550	1940
High Side	485	60	2010
Logging	2	210	40
Break down vans.	10		10658
Total Cars	3040	62554	10000
State Cars	6		24
Directors' car	1		4
Private & Service	18		56
1st class	32		128
2nd class	42		168
3rd class	103		412
Composite	17		68
	17		28
Buffet	5		20
Postal Vans	9		
Train-de-Luxe Equipment.			12
1st class Dining	3		
2nd class Dining	3		12
1st class Sleeping	6		24
2nd class Sleeping	3		12
1st class Saloon	3		12
2nd class Saloon	2		8
Heating & Lighting	4		16
Baggage & Brake Vans	5		20
Brake Vans			
4 wheel	49		98
8 wheel	15		60
Note. Register corrected by removal of 48	10		
freight wagons.	324		1182
0	924		

Locomotives.

				Total		132
	2-6-4	,,	17" x	24"	_ 3	23
	0-6-0	"	16" x		4	
	2-6-2	>>	14" x	20"	16	
Shunters.						
	2—6—0	,,	16" x	24"	26	89
	2-6-0	"	19" x	24"	20	
	2-6-0	,,	17" x	24"	43	
Freight.						
	4—6—0	"	18" x	24"	13	. 20
	4-4-0		19" x		3	
	4-4-0	Cylinder			4	
Passenger.						

Tenders.

						T	otal		116
6	Wheel		,						26
	Wheel								
	Wheel								

Comparative Table of Rolling Stock.

	1913	1914
Passenger coaches and Brake Vans	306	324
No. of axles	1114	1182
Freight cars of all classes	2941	3040
Tonnage capacity	59711	62554
Locomotives of all classes	124	132
Weight in tons	5649	6087.19
		And the second second

Bridge Works Shanhaikwan

Annual Report from July 1st 1913 to June 30th 1914.

							* LETTER	fallowe'_
2000	1	of	work	turned	out	Was	CB	follows:-

Tons e) e)	45. 32. 1.	0. 5. 8. 19. 18. 18.	3. 1. 2. 2. 1. 1.	8. 19. 8. 8. 22. 0,
Tons				6.
			0.	0.
Tons	21	1.	1	7
	5.			1900
	5,	18.	2.	18
	1.	19.	0.	0.
	1.	18.	0.	0.
	1.	10.	0.	0.
	1.	1.	3.	21.
	3.	0.	0,	8.
	1.			
	1.			
	18.			
	1,	0.	2.	4,
	32.	7.	0.	7.
Tons	96.	12.	2.	17.
Tons	69.	3,	0.	0,
	1,039,			
plete	and 80	Do	uble	an
	and deli			
gs for	r Point Chairs,	ts, C	dross gnal	
	nway	. To	Tons.	

Average Number of Employees.

The average daily labour employed including Sundays, Holidays and staff amounts to 430.

Total Tons. 252. 19. 1.14

GENERAL NOTES.

Locomotives Department.

A heavy shunting engine has been obtained from the North British Locomotive Company of a type which it is hoped to make standard for the line, the present shunters being too light for the work they are called on to perform went into service and has given every satisfaction. Two similar engines are to be built at Tongshan Works. Two of the five standard Mogul engines built here were fitted with Phoenix superheaters which have worked as satisfactory as was expected of a smoke box superheater during the short time they have been in service. The reboilering of the older classes of engines continues.

The accommodation for second and third class Passengers has been greatly improved. The new second class being provided with wire woven seats covered with rattan, equipped with Stones system of electric light and steam heated. The new third class coaches are now built with standard passenger coach bodies, except that loading and unloading takes place from big side doors. They are fitted with battened seats round the sides and down centre and wide baggage racks. All have a special women's compartment and are steam heated. A few have been given small kitchens. Several of the old type third class are being rebuilt to this design. The first 'all steel' thirty ton coal cars have gone into service and becomes the standard of this type on this Railway. All freight bogic stock and passenger coaches built during the year and now building are fitted with pressed steel bogics manufactured at Tongshan Works.

During the Spring the want of a sufficient water supply for Tongshan Works gave considerable trouble and machine shops were frequently shut down. The sinking of two new wells, the deepening of the existing main well and the provision of another pumping station were put into the hands of the Kailan Mining Administration who are now engaged on the work. A 7" water main has been laid between the Car Works tower, Loco. Works tower and running shed stand pipe. The hydraulic water pressure mains between the power house and boiler shops were renewed. A duplicate electric light combined set and another boiler were installed at Chien-men power house. The car shed at Mukden was piped for steam heating.

So great was the demand for rolling stock that it was difficult at times to get sufficient stock passed through the works to maintain it in the required state of repair.

The work undertaken in these Works has developed considerably during the last few years without increase in staff. The extra pressure of work has been much felt by the existing executive staff, especially in the Store Department. Further expert foreign assistance is required here and in some of the shops.

To meet the growing trade of this Railway and especially the coal traffic between Tongshan and Tongho the following addition to rolling stock and more important improvements to track and stations is recommended:

Locomotives.	Consolidation type Locos. 13 tons on driv Mikado type Locos. 16 tons on driv 3 4-6-0 type Locos. 17 tons on driv	ers.
Cars.	200 30-ton H. S. coal cars, 100 30-ton covered Goods.	

Extension to Car Works. Extension to Store Buildings. Tongshan Shops. New machinery.

Permanent Way. General Improvements. M. D. New station close to city with large station building, quarters, platforms, etc.

M. D. to S. H. K. All platforms to be lengthened to 600 ft.

Y. K. to K. P. T. " " " " 400 "

L. C. W. P. New Station building and filling borrow pits in Goods yard.

Y. K. Build out the East end of wharf into deep water, so as to make the whole wharf available for steamers. At present at low tide the depth of water at east end is only a few feet.

S. S. N. New station building and small extensions of sidings.

S. H. K. The quarters and telegraph office at east end of station building to be pulled down. and those at west end to be rebuilt as offices etc., for telegraph and station staff. Down platform to be widened and a back passenger-train bay put in.

S. H. K. Signal cabins to be built, and points and signals interlocked. This work entails widening Br. 135, and building new quarters to replace those pulled down or converted into offices.

T. H. to T. N. Widen the line and lay double track,

T. H. to P. T. H. Line to be diverted to a new route, passing nearer to Chin-Wang-Tao, and requiring a new junction in lieu of T.H., present station. This new line is proposed, so as to do away with the present heavy grades between T. H. and P. T. H. Its worse grade will be 1 in 500 and much heavier trains than at present can then be handled.

S. H. K. to K. Y. Re-lay main line with 85 lb. rails in lieu of present 60 lbs.

S. M. to L. C. Reduce grade east of Lan-ho from 1 in 200 to 1 in 250.

K. P. Reconstruction of station yard to handle increasing coal traffic, and entailing building a new station building.

K. Y. Reconstruction of station yard to handle increasing coal traffic.

Level Crossings. Signalling and interlocking the more important crossings.

D. Poyntz Ricketts,

Engineer-in-Chief and General Manager.

TRAFFIC DEPARTMENT.

Train miles run for Train miles run for	Revenue Construction	and	Mainte	nance						2,625,295 57,467
Number of Passenge	rs carried									
Number of Tons of		ied					*		,	3,696,889
				,						4,476,226
		-						*		
Passenger Mileage										
Ton Mileage .										277,825,494
		Total	"Dass		, m					372,540,618
Average number of a	men employe	ed un	"Pass der Tr	offic 1	\r	Miles	age			650,366,112
including Police	Force					. }				3,203

TELEGRAPH DEPARTMENT.

Length of Wires.

T C T C Tunction								
T. C. — T. C. Junction C. M. — Y. K. Double		,						Miles 16.65
C. M. — Y. K. Double T. S. — Fengtien Sing		~ .						1043.50
TI VI TONGUON DING	TO A	VILE						
K. P. T. — Fengtien I. T. S. City — Hsiku	ouble	wires	i.	120				011
								1 00
T. S. City — T. S. E. T. K. — H. H.								16.26
me and the thing				4				01.10
F. T. — Lookouchiao								3.85
								[iles 1756.74
							=	

Electric Staff Wires.

C. M. — Fengtien & Yingkow				Miles	521.78
Number of Messages sent, Service .					190224
Number of Messages sent, Outside .					4454
Average Number of Employes					394
Number of Telegraph Stations					81
delegraph Instruments in us	se.				13
Number of Electric Staff Stations .		*			75
Number of Electric Staff and Tablet Ap	pparatus				141

圖 全 路 鐵 奉 京 P. M. R. AND CONNECTIONS.



